INTERNATIONALSEARCHREPORT

International application No. PCT/JP2004/019460

A. CLASSIFICATIONOF SUBJECT MATTER					
Int.Cl ⁷ C22F1/043, C22C21/02, B21J5/00					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols)					
Int.Cl ⁷ C22F1/043, C22C21/02, B21J5/00					
Documentation rearrhed other than minimum documentation and the state of the state					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model					
Applications 1971-2005, Japanese Registered Utility Model Gazette 1994-2005, Japanese Gazette Containing the Utility Model 1996-2005					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
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C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where a	Belguerate eleien N			
	on-most of coordinate, what and another, where appropriate, of the relevant passages			Relevant to claim No.	
¥	JP 64-39339 A(K.K. KOBE SEIKOUSHO)1989.02.09, Claims, page 1, column 2, lines 9-12, page 3, column 2, lines 19 - column 6, page 3, column 3, lines 14-16, TABLE2 (Family:none)			1,4-16	
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¥	<pre>Y JP 2000-265232 A(NIHON KIKINZOKU K.K.) 2000.09.26, Claims (Family:none)</pre>			1,4-16	
¥	WO 01/077398 A1(SHOWA DENKO K.K.)2001.10.18, Claims & US 2002-3012 A1			1,4-16	
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Furthe	r documents are listed in the continuation of Box C.	[See patent family annex.		
Special categories of cited documents: "T" later document published after the international filing date or					
considered to be of particular relevance understand the principle or theory underlying the invention				the application but cited to I	
national filing date			document of particular relevance; the be considered novel or cannot be	considered to involve an I	
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special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means			combined with one or more othe	step when the document is r such documents, such	
"P" document published prior to the international filing date but later uthan the priority date claimed			combination being obvious to a person document member of the same patern		
			Date of mailing of the international search report		
31.03.2005			19, 4, 2005		
Name and mailing address of the ISA/JP			horized officer		
Japan Patent Office		TA	AKESHI INOUE	4K 9269	
3-4-3. Kasumigaseki, Chivoda-ku, Tokyo 100-8915. Japan			mhone No. +81-3-3581 1101 Fr	wt 242F	